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<120> Human Antibody Molecules for IL-13

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Gly Trp Ile Ser Ala Asn Asn Gly Asp Thr Asn Tyr Gly Gln Glu Phe  
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Ser Ala Ile Ser Gly Ser Gly Ser Thr Tyr Tyr Ala Asp Ser Val  
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Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
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Ser Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val  
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Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

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Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Arg Val Glu Ala Gly  
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Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr  
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His Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr  
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Gly Trp Ile Ala Thr Pro Asp Gly Gln Thr Ser Tyr Gly Gln Glu Phe  
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Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
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Asp Asp Gly Asp Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
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Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Arg Val Glu Ala Gly  
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35 40 45

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50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Arg Val Glu Ala Gly  
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35 40 45

Gly Trp Ile Ser Gly Ser Asn Gly Tyr Thr Ser Tyr Gly Gln Glu Phe  
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Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr  
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Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
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Thr Ala Arg Ile Thr Cys Gly Gly Asn Ile Ile Gly Ser Lys Leu Val  
20 25 30

His Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr  
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35 40 45

Gly Trp Ile Asn Asp Ala Thr Gly Asp Thr Gln Tyr Gly Gln Glu Phe  
50 55 60

Gln Gly Arg Val Thr Met Thr Asp Thr Ser Thr Ser Thr Ala Tyr  
65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
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Gly Arg Gly Thr Leu Val Thr Val Ser Ser  
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20 25 30

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35 40 45

Asp Asp Gly Asp Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Arg Val Glu Ala Gly  
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Val Val Phe Gly Gly Thr Lys Leu Thr Val Leu  
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Gly Arg Gly Thr Leu Val Thr Val Ser Ser  
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His Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr  
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Asp Asp Gly Asp Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Arg Val Glu Ala Gly  
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35 40 45

Gly Trp Ile Asp Asp Asp Ser Gly Thr Thr Ile Tyr Gly Gln Glu Phe  
50 55 60

Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr  
65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
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Ala Arg Asp Ser Ser Ser Ser Trp Ala Arg Trp Phe Phe Asp Leu Trp  
100 105 110

Gly Arg Gly Thr Leu Val Thr Val Ser Ser  
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Ser Tyr Val Leu Thr Gln Pro Pro Ser Val Ser Val Ala Pro Gly Lys  
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Thr Ala Arg Ile Thr Cys Gly Gly Asn Ile Ile Gly Ser Lys Leu Val  
20 25 30

His Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr  
Page 26

35

40

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Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Arg Val Glu Ala Gly  
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35 40 45

Gly Trp Ile Ser Ala Asn Asn Gly Asp Thr Asn Tyr Gly Gln Glu Phe  
50 55 60

Gln Gly Arg Val Thr Met Thr Asp Thr Ser Thr Ser Thr Ala Tyr  
65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
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20 25 30

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35 40 45

Asp Asp Gly Asp Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Arg Val Glu Ala Gly  
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Val Val Phe Gly Gly Thr Lys Leu Thr Val Leu  
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atggagttga	ggagcctgag	atctgacgac	acggccgtt	attactgtgc	gagagactcc	300
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caggcccttg tgctggcat ctatgtatgat ggcgaccggc cctcaggat ccctgagcga 180  
ttctctggct ccaactctgg gaacacggcc accctgacca tcagcagggt cgaggccggg 240  
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cctggacaag ggcttgagtg gatggatgg atcaacgacg ccaccggcga cacacagtat 180

SeqListing.TXT

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caggccctg tgctggtcat ctatgatgat ggcgaccggc cctcagggat ccctgagcga 180  
ttctctggct ccaactctgg gaacacggcc accctgacca tcagcagggt cgaggccgg 240  
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SeqListing.TXT

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Gly Leu Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
35 40 45

Gly Trp Ile Ser Ala Asn Asn Gly Glu Thr Asn Tyr Gly Gln Glu Phe  
50 55 60

Gln Gly Arg Val Thr Met Thr Glu Thr Pro Thr Asn Thr Ala His  
65 70 75 80

Met Glu Leu Arg Ser Leu Thr Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Val Arg Asp Ser Ser Asn Trp Ala Arg Trp Tyr Phe Asp Leu Trp  
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Gly Gln Gly Thr Leu Val Thr Val Ser Ser  
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Ser Tyr Val Leu Thr Gln Pro Pro Ser Val Ser Val Ala Pro Gly Gln  
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Thr Ala Arg Ile Pro Cys Gly Gly Asn Asn Ile Gly Ser Lys Leu Val  
20 25 30

His Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Val Tyr  
35 40 45

SeqListing.TXT  
Asp Asp Gly Asp Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Arg Ile Asp Ala Gly  
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Val Trp Asp Thr Gly Ser Asp Pro  
85 90 95

Val Val Phe Gly Gly Thr Lys Leu Thr Val Leu Gly  
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Asn Tyr Gly Leu Ser  
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Trp Ile Ser Ala Asn Asn Gly Glu Thr Asn Tyr Gly Gln Glu Phe Gln  
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Gly

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<400> 138

Gly Gly Asn Asn Ile Gly Ser Lys Leu Val His  
1 5 10

<210> 139

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<212> PRT

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Asp Asp Gly Asp Arg Pro Ser  
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Gln Val Trp Asp Thr Gly Ser Asp Pro Val Val  
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SeqListing.TXT

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Ser Tyr Ala Met Ser  
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Ala Ile Ser Gly Ser Gly Ser Thr Tyr Tyr Ala Asp Ser Val Lys  
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Gly

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<400> 143

Val Gly Ala Ala Gly Glu Gly Tyr Tyr Gly Tyr  
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Thr Arg Ser Ser Gly Ser Ile Ala Ser Asn Tyr Val Glu  
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Gln Ser Tyr Asp Ser Asn Asn Asp Val  
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Ser Tyr Ala Met Ser  
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Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val Lys  
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Thr Arg Ser Ser Gly Ser Ile Ala Ser Asn Tyr Val Gln  
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Asp Asp Asn Gln Arg Pro Ser  
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Gln Ser Tyr Asp Ser Asn Asn Asp Val  
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SeqListing.TXT

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<213> Homo sapiens

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Ser Tyr Ala Met Ser  
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<210> 154

<211> 17

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<213> Homo sapiens

<400> 154

Ala Ile Ser Gly Ser Gly Ser Thr Tyr Tyr Ala Asp Ser Val Lys  
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Gly

<210> 155

<211> 11

<212> PRT

<213> Homo sapiens

<400> 155

Val Gly Lys Ala Thr Thr Glu Glu Gly Tyr Tyr  
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<210> 156

<211> 13

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SeqListing.TXT

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<211> 7

<212> PRT

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<400> 157

Asp Asp Asn Gln Arg Pro Ser  
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<210> 158

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Gln Ser Tyr Asp Ser Asn Asn Asp Val  
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ggggaaaca acattggaag taaacttgta cac 33

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SeqListing.TXT

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<211> 33

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ggggaaaca tcattggaag taaacttgta cac

33

<210> 169

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<213> Homo sapiens

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&lt;211&gt; 33

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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33

&lt;210&gt; 171

&lt;211&gt; 327

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 171

Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Cys Ser Arg  
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20 25 30Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser  
35 40 45Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser  
50 55 60Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Lys Thr  
65 70 75 80Tyr Thr Cys Asn Val Asp His Lys Pro Ser Asn Thr Lys Val Asp Lys  
85 90 95Arg Val Glu Ser Lys Tyr Gly Pro Pro Cys Pro Ser Cys Pro Ala Pro  
100 105 110Glu Phe Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys  
115 120 125Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val  
130 135 140

SeqListing.TXT

Asp Val Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr Val Asp  
145 150 155 160

Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe  
165 170 175

Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp  
180 185 190

Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu  
195 200 205

Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg  
210 215 220

Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu Met Thr Lys  
225 230 235 240

Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp  
245 250 255

Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys  
260 265 270

Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser  
275 280 285

Arg Leu Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn Val Phe Ser  
290 295 300

Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser  
305 310 315 320

Leu Ser Leu Ser Leu Gly Lys  
325

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<211> 105

<212> PRT

<213> Homo sapiens

<400> 172

Gln Pro Lys Ala Ala Pro Ser Val Thr Leu Phe Pro Pro Ser Ser Glu  
Page 63

## SeqListing.TXT

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Glu Leu Gln Ala Asn Lys Ala Thr Leu Val Cys Leu Ile Ser Asp Phe  
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Tyr Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Ser Ser Pro Val  
35 40 45

Lys Ala Gly Val Glu Thr Thr Pro Ser Lys Gln Ser Asn Asn Lys  
50 55 60

Tyr Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys Ser  
65 70 75 80

His Arg Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser Thr Val Glu  
85 90 95

Lys Thr Val Ala Pro Thr Glu Cys Ser  
100 105

<210> 173

<211> 132

<212> PRT

<213> Homo sapiens

<400> 173

Met Ala Leu Leu Leu Thr Thr Val Ile Ala Leu Thr Cys Leu Gly Gly  
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Phe Ala Ser Pro Gly Pro Val Pro Pro Ser Thr Ala Leu Arg Glu Leu  
20 25 30

Ile Glu Glu Leu Val Asn Ile Thr Gln Asn Gln Lys Ala Pro Leu Cys  
35 40 45

Asn Gly Ser Met Val Trp Ser Ile Asn Leu Thr Ala Gly Met Tyr Cys  
50 55 60

Ala Ala Leu Glu Ser Leu Ile Asn Val Ser Gly Cys Ser Ala Ile Glu  
65 70 75 80

Lys Thr Gln Arg Met Leu Ser Gly Phe Cys Pro His Lys Val Ser Ala  
85 90 95

SeqListing.TXT

Gly Gln Phe Ser Ser Leu His Val Arg Asp Thr Lys Ile Glu Val Ala  
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Gln Phe Val Lys Asp Leu Leu Leu His Leu Lys Lys Leu Phe Arg Glu  
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Gly Arg Phe Asn  
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<211> 132

<212> PRT

<213> Macaca fascicularis

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Ile Glu Glu Leu Val Asn Ile Thr Gln Asn Gln Lys Ala Pro Leu Cys  
35 40 45

Asn Gly Ser Met Val Trp Ser Ile Asn Leu Thr Ala Gly Val Tyr Cys  
50 55 60

Ala Ala Leu Glu Ser Leu Ile Asn Val Ser Gly Cys Ser Ala Ile Glu  
65 70 75 80

Lys Thr Gln Arg Met Leu Asn Gly Phe Cys Pro His Lys Val Ser Ala  
85 90 95

Gly Gln Phe Ser Ser Leu Arg Val Arg Asp Thr Lys Ile Glu Val Ala  
100 105 110

Gln Phe Val Lys Asp Leu Leu Val His Leu Lys Lys Leu Phe Arg Glu  
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Gly Gln Phe Asn  
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SeqListing.TXT

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<213> Mus sp.

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20 25 30

Leu Lys Glu Leu Ile Glu Glu Leu Ser Asn Ile Thr Gln Asp Gln Thr  
35 40 45

Pro Leu Cys Asn Gly Ser Met Val Trp Ser Val Asp Leu Ala Ala Gly  
50 55 60

Gly Phe Cys Val Ala Leu Asp Ser Leu Thr Asn Ile Ser Asn Cys Asn  
65 70 75 80

Ala Ile Tyr Arg Thr Gln Arg Ile Leu His Gly Leu Cys Asn Arg Lys  
85 90 95

Ala Pro Thr Thr Val Ser Ser Leu Pro Asp Thr Lys Ile Glu Val Ala  
100 105 110

His Phe Ile Thr Lys Leu Leu Ser Tyr Thr Lys Gln Leu Phe Arg His  
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Gly Pro Phe  
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<223> Xaa = Tyr or Thr

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<222> (4)..(4)

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<210> 177

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<223> Xaa = Ala, Asp, Gly, Thr, Pro, Asn or Tyr

SeqListing.TXT

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<223> Xaa = Asn, Asp, Leu, Ala, Pro, Thr, Ser, Ile or Arg

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<221> MISC\_FEATURE

<222> (6)..(6)

<223> Xaa = Asn, Ser, Thr, Asp, Gly, Lys or Ile

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<221> MISC\_FEATURE

<222> (8)..(8)

<223> Xaa = Asp, Thr, Glu, Gln, Leu, Tyr, Asn, Val, Ala, Met or Gly

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<223> Xaa = Asn, Ile, Leu, Gln, Ser, Met, His, Asp or Lys

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<222> (12)..(12)

<223> Xaa = Gly or Arg

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<222> (13)..(13)

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Xaa

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SeqListing.TXT

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<223> Xaa = Ser, Asn, Ala, Ile, Arg, Pro or Lys

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SeqListing.TXT

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SeqListing.TXT

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Gly

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Gly

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Gly

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Gly

<210> 192

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SeqListing.TXT

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Gly

<210> 193

<211> 17

<212> PRT

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<400> 193

Trp Ile Gly Asn Asn Asn Gly Asp Thr Leu Tyr Gly Gln Glu Phe Gln  
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Gly

<210> 194

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<213> Homo sapiens

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Gly

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<211> 17

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SeqListing.TXT

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Gly

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Gly

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Gly

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SeqListing.TXT

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<211> 17

<212> PRT

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<400> 201

Trp Ile Ser Ala Asn Asn Gly Gly Thr Asn Tyr Gly Gln Glu Phe Gln  
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SeqListing.TXT

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Gly

<210> 203

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Gly

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SeqListing.TXT

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Gly

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Gly

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Gly

SeqListing.TXT

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Gly

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<211> 17

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<400> 209

Trp Ile Ser Ala Asn Asn Gly Asp Thr Lys Tyr Gly Gln Glu Phe Gln  
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Gly

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<211> 17

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SeqListing.TXT

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Gly

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<400> 212

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Gly

<210> 213

<211> 17

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Trp Ile Ser Thr Asn Asn Gly Asp Thr Asn Tyr Gly Arg Glu Phe Gln  
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Gly

<210> 214

<211> 17

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SeqListing.TXT

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Lys

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<213> Homo sapiens

<400> 215

Asp Ser Asp Ser Ser Trp Ala Arg Trp Phe Phe Asp Leu  
1 5 10

<210> 216

<211> 13

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Asp Ser Thr Ser Ala Trp Ala Arg Trp Phe Phe Asp Leu  
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<210> 217

<211> 13

<212> PRT

<213> Homo sapiens

<400> 217

Asp Ser Asn Ser Ala Trp Ala Arg Trp Phe Phe Asp Leu  
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SeqListing.TXT

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Asp Ser Thr Ser Arg Trp Ala Arg Trp Phe Phe Asp Leu  
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<210> 220

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Asp Arg Asp Ser Ser Trp Ala Arg Trp Phe Phe Asp Leu  
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Gly Gly Asn Leu Ile Gly Ser Lys Leu Val His  
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SeqListing.TXT

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Gly Gly Asn Cys Ile Gly Ser Lys Leu Val His  
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Gly Gly Asn Val Ile Gly Ser Lys Leu Val His  
1 5 10

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<211> 11

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<213> Homo sapiens

<400> 229

Gly Gly Asn Lys Ile Gly Ser Lys Leu Val His  
Page 86

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Gly Gly Asn Ser Ile Gly Ser Arg Leu Val His  
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Gly Gly Asp Asn Ile Gly Gly Lys Leu Val His  
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SeqListing.TXT

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Gly Gly Asn Asn Ile Gly Ser Arg Leu Val His  
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SeqListing.TXT

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<211> 11

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<400> 247

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SeqListing.TXT

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Phe Ala Ser Pro Xaa Pro Val Pro Pro Ser Thr Ala Leu Xaa Glu Leu  
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Ile Glu Glu Leu Val Asn Ile Thr Gln Asn Gln Lys Ala Pro Leu Cys  
35 40 45

Asn Gly Ser Met Val Trp Ser Ile Asn Leu Thr Ala Gly Xaa Tyr Cys  
50 55 60

Ala Ala Leu Glu Ser Leu Ile Asn Val Ser Gly Cys Ser Ala Ile Glu  
65 70 75 80

Lys Thr Gln Arg Met Leu Xaa Gly Phe Cys Pro His Lys Val Ser Ala  
85 90 95

Gly Gln Phe Ser Ser Leu Xaa Val Arg Asp Thr Lys Ile Glu Val Ala  
100 105 110

Gln Phe Val Lys Asp Leu Leu Xaa His Leu Lys Lys Leu Phe Arg Glu  
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Gly Xaa Phe Asn  
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<210> 249

<211> 136

<212> PRT

<213> Artificial sequence

<220>

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<223> Xaa = Any amino acid

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20 25 30

Leu Xaa Glu Leu Ile Glu Glu Leu Xaa Asn Ile Thr Gln Xaa Gln Xaa  
35 40 45

Xaa Pro Leu Cys Asn Gly Ser Met Val Trp Ser Xaa Xaa Leu Xaa Ala  
50 55 60

Gly Xaa Xaa Cys Xaa Ala Leu Xaa Ser Leu Xaa Asn Xaa Ser Xaa Cys  
65 70 75 80

Xaa Ala Ile Xaa Xaa Thr Gln Arg Xaa Leu Xaa Gly Xaa Cys Xaa Xaa  
85 90 95

Lys Xaa Xaa Xaa Xaa Xaa Ser Ser Leu Xaa Xaa Xaa Asp Thr Lys  
100 105 110

Ile Glu Val Ala Xaa Phe Xaa Xaa Xaa Leu Leu Xaa Xaa Xaa Lys Xaa  
115 120 125

Leu Phe Arg Xaa Gly Xaa Phe Xaa  
130 135

**SeqListing.TXT**